

VIPER®

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OWNER'S GUIDE

M O D E L
4606V

Congratulations

Congratulations on the purchase of your state-of-the-art remote start and keyless entry system. Reading this Owner's Guide prior to using your system will help maximize the use of your system and its many features. For any additional questions please contact your authorized Directed dealer or contact Directed at **1-800-753-0600**. (U.S. only)

Additional Guide Information

Only basic commands, features and essential information are covered in this compact guide. Your product has many advanced features which are not discussed here, please consult the expanded online version for these on the website listed on the back cover. Most sections in this guide also contain additional information which can be found in the expanded online version.

Important information

Government Regulations and Safety Information



Read the "*Government Regulations*" and "*Warning! Safety First*" sections of this manual prior to operating this system.

Warning! Failure to heed this information can result in death, personal injury or property damage and may also result in the illegal use of the system beyond its intended purpose.

Your Warranty

Your system comes with a warranty. The warranty terms are detailed at the end of this guide. Make sure that you receive the proof of purchase from your dealer, indicating the product was installed by an authorized Directed dealer.

Optional Remote Controls

A choice of two optional remote controls with additional features is also available for use with your system. These remote control choices are: LED 2-way (P/N 7856) and LCD 2-way (P/N 7756). See your authorized dealer for purchasing details. Once purchased, please go online to our website (listed on the back cover) and use system model number 4806 or 4706 respectively to search for the appropriate owner's guide, which provides instructions on how to use these remote controls.



Replacement remote controls

Please see your authorized dealer or visit us at **www.directedstore.com** to order additional remote controls. Remote control part numbers are found on the back of the device.

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Remote Control

Feature	Description
Internal Antenna	Used for transmitting information
Transmit LED	Active when transmitting information
Command buttons (4)  AUX	Used to perform locking, unlocking, auxiliary channel and remote start commands
Function button 	Used to access function levels for commands, configuration menus for programming and Car Selection

Control Center



The Control Center, typically located on the upper part of the front windshield. It consists of:

- The In-vehicle system antenna.
- The Status LED, as a visual indicator of the system's status.
- The Control button, for placing the system into Valet Mode* and to perform the Emergency Override operation.

* See online guide.

Using your System

Commanding the system

Commands, Basic or Advanced, are used to activate system features and are performed by pressing one of the Command buttons. Basic commands control the most often used keyless entry and remote start features while Advanced commands control more specialized features.


Confirmations for Basic or Advanced commands are indicated by horn honks* and parking light flashes. A description of each feature confirmation is found in the following Basic command and Advanced command sections.

Performing Commands

Perform Basic commands by pressing a Command button.




Perform Advanced Commands by first accessing Levels 1-4 using the **f** button and then by pressing a Command button while within a level.

Advanced command example: Silent Lock

1. **Press** the **f** button once to access Function Level 1, The transmit LED single flashes for 3 seconds.
2. **Press** the  button while the transmit LED is still flashing to perform the Silent Lock command.
3. The system will lock the doors and flash the parking lights, without horn honks.*

* The optional Horn Honk feature must be connected.

Remote Control Command table

	Basic Commands	Advanced Commands			
		Function Level 1	Function Level 2	Function Level 3	Function Level 4
Level Button	Direct Access	f x 1	f x 2	f x 3	f x 4
	Lock	Silent Lock			
	Unlock	Silent Unlock	Remote Valet	Car Finder	
	Remote Start	Reset Runtime	Timer Start	Smart Start	Defogger
AUX	AUX/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level, Change Car (3 sec), Enter programming (8 sec)				


Basic Commands (Direct Access)



Lock

Press and release 

Doors lock (if connected), the horn honks** once and the parking lights flash one time.

To Lock and Panic

Press and **hold** 

To lock the system, then activate Panic. For Panic to be effective, the optional horn honk feature must be connected. **Press** the  or  button to stop Panic output.

Unlock

Press and release 

The doors unlock (if connected), the horn honks** twice and the parking lights flash.

Remote Start*

Press and release 

Activates (or if On, deactivates) the remote starter. The engine turns On, or the engine turns Off accordingly. If a Remote start configuration issue prevents the engine from starting, the parking lights flash a Remote Start fault report to identify the fault.

AUX/Trunk**

Press and **hold** **AUX**

The Trunk opens (if connected) when button is held for 2 seconds.

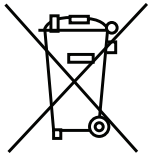
* See online guide.

** This is an optional feature, see your authorized Directed dealer.

Battery Information

The remote controls are powered by one coin cell battery (CR-2032) that can be purchased at most retailers. When the battery begins to weaken, the operating range is reduced.

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.

Patent Information

This product is covered by one or more of the following United States patents:

Remote Start Patents:

5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936;
5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053;
7,483,783

Vehicle Security Patents:

5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591;
5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667;
5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Other patents pending.

Government Regulations

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Remote Controls

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

Control Center

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Warning! Safety First



Please read the safety warnings below before proceeding. Improper use of the product may be dangerous or illegal.

Installation

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer. If you have any questions, ask your retailer or contact Directed directly at 1-800-753-0600.

Remote Start Capable

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter. Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the

installed menu wheel. It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED. These precautions are the sole responsibility of the user.

Manual Transmission Vehicles

Remote starters on manual transmission vehicles operate differently than those with automatic transmission because you must leave your car in neutral. You must read this Owner's Guide to familiarize yourself with the proper procedures regarding manual transmission remote starters. If you have any questions, ask your authorized Directed dealer or contact Directed at 1-800-753-0600. Before remote starting a manual transmission vehicle, be sure to:

- Leave the vehicle in neutral and be sure no one is standing in front or behind the vehicle.
- Only remote start on a flat surface
- Have the parking brake fully engaged

WARNING! It is the responsibility of the owner to ensure the parking/emergency brake properly functions. Failure to do so can result in personal injury or property damage. We recommend the owner have the parking / emergency brake system inspected and adjusted by a qualified automotive shop biannually.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral safety feature

of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in the product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized Directed dealer to fix the problem.

After the remote start module has been installed, contact your authorized dealer to have him or her test the remote start module by performing the Safety Check outlined in the product installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or the installer must properly reinstall the remote start system so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED Directed DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

This product is designed for fuel injected vehicles only. Use of this product in a standard transmission vehicle must be in strict accordance with this guide.

This product should not be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

Interference

All radio devices are subject to interference which could affect proper performance.

Upgrades

Any upgrades to this product must be performed by an authorized Directed dealer. Do not attempt to perform any unauthorized modifications to this product.

Water/Heat Resistance

This product is not designed to be water and/or heat-resistant. Please take care to keep this product dry and away from heat sources. Any damage from water or heat will void the warranty.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR

ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLIGENCE, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

920-10011-01-2011-06

DIRECTED®

The company behind Viper® Auto Security Systems is Directed.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology.

Quality Directed products are sold and serviced throughout North America and around the world.

Call **(800) 876-0800** for more information about our products and services.

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Replacement remote controls

Please see your authorized dealer or visit us at **www.directedstore.com** to order additional remote controls. Remote control part numbers are found on the back of the device.

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Getting Started

Keys to using this manual

Specific actions (in bold type) and style conventions are used consistently throughout this manual, they are as follows:

- **Press:** implies pushing in and releasing a button.
- **Hold:** is used after Press actions when a button needs to be held in position for an extended period of time, typically several seconds.
- *Italicized* words denote section/sub headings in this guide and can be located through the table of contents.
- An asterisk (*) when used after a word or phrase denotes that additional details can be found in related sections usually noted at the bottom of the page or end of the section.

Remote Control

Feature	Description
Internal Antenna	Used for transmitting information
Transmit LED	Active when transmitting information
Command buttons (4) 	Used to perform locking, unlocking, auxiliary channel and remote start commands
Function button 	Used to access function levels for commands, configuration menus for programming and Car Selection

Control Center



The Control Center, typically located on the upper part of the front windshield. It consists of:

- The In-vehicle system antenna.
- The Status LED, as a visual indicator of the system's status.
- The Control button, for placing the system into Valet Mode* and to perform the Emergency Override operation.

* See "Remote and System Operations" for details.

Using your System

Commanding the system

Commands, Basic or Advanced, are used to activate system features and are performed by pressing one of the Command buttons. Basic commands control the most often used keyless entry and remote start features while Advanced commands control more specialized features.


Confirmations for Basic or Advanced commands are indicated by horn honks* and parking light flashes. A description of each feature confirmation is found in the following Basic command and Advanced command sections.

Performing Commands

Perform Basic commands by pressing a Command button.




Perform Advanced Commands by first accessing Levels 1-4 using the **f** button and then by pressing a Command button while within a level.

Advanced command example: Silent Lock

1. **Press** the **f** button once to access Function Level 1, The transmit LED single flashes for 3 seconds.
2. **Press** the  button while the transmit LED is still flashing to perform the Silent Lock command.
3. The system will lock the doors and flash the parking lights, without horn honks.*

* The optional Horn Honk feature must be connected.

Remote Control Command table

	Basic Commands	Advanced Commands			
		Function Level 1	Function Level 2	Function Level 3	Function Level 4
Level Button	Direct Access	f x 1	f x 2	f x 3	f x 4
	Lock	Silent Lock			
	Unlock	Silent Unlock	Remote Valet	Car Finder	
	Remote Start	Reset Runtime	Timer Start	Smart Start	Defogger
AUX	AUX/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level, Change Car (3 sec), Enter programming (8 sec)				


Basic Commands (Direct Access)



Lock

Press and release 

Doors lock (if connected), the horn honks** once and the parking lights flash one time.

To Lock and Panic

Press and **hold** 

To lock the system, then activate Panic. For Panic to be effective, the optional horn honk feature must be connected. **Press** the  or  button to stop Panic output.

Unlock

Press and release 

The doors unlock (if connected), the horn honks** twice and the parking lights flash.

Remote Start*

Press and release 

Activates (or if On, deactivates) the remote starter. The engine turns On, or the engine turns Off accordingly. If a Remote start configuration issue prevents the engine from starting, the parking lights flash a Remote Start fault report to identify the fault.

AUX/Trunk**

Press and **hold AUX**

The Trunk opens (if connected) when button is held for 2 seconds.

* For Manual transmission vehicles see "Manual Transmission Start".

** This is an optional feature, see your authorized Directed dealer.

Advanced Commands: (Level 1)

Press and release the **f** button one time first, before pressing one of the following command buttons. The transmit LED illuminates in sets of single flashes to indicate Level 1.

Silent Lock

Press and release 

The doors lock (if connected), without horn honks.*

Silent Unlock

Press and release 

Doors unlock (if connected), without horn honks.*

Runtime Reset

Press and release 

If more time is needed while remote start is active, runtime reset will reset the runtime counter to the pre-programmed setting.

Note	Remote Start must be On to use this feature.
-------------	--

AUX 1

Press and release **AUX**

Activates (or if On, deactivates) the Aux 1 output.

* The optional Horn Honk feature must be connected.

Advanced Commands: (Level 2)

Press and release the **f** button two times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of double flashes to indicate Level 2.

Remote Valet

Press and release 

Enters (or if On, exits) Valet Mode. The Control Center LED turns on and off accordingly, and prevents doors from locking passively.

Timer Start*

Press and release 

Activates (or if On, deactivates) Timer Start. The parking lights flash quickly four times for On and slowly four times for Off.

Note	System needs to be locked with the remote or Timer Start will not start the engine.
-------------	---

AUX 2

Press and release **AUX**

Activates (or if On, deactivates) the Aux 2 output.

* See "Advanced Start" under "Remote Start Features" for more details.
--

Advanced Commands: (Level 3)

Press and release the **f** button three times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of triple flashes to indicate Level 3.

Car finder

Press and release 

The horn emits one long honk and the parking lights flash for 10 seconds. The parking light flashes stop if locked or unlocked while Car Finder is in progress. Lock and Unlock cancels the parking light flash.

Smart Start*

Press and release 

Activates (or if On, deactivates) Smart Start. The parking lights flash quickly five times for On and slowly five times for Off.

Note	System needs to be locked or Smart Start will not start the engine.
-------------	---

AUX 3

Press and release **AUX**

Activates (or if On, deactivates) the Aux 3 output. See your authorized Directed dealer for details.

* See "Advanced Start" for more details.
--

Advanced Commands: (Level 4)

Press and release the **f** button four times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of quadruple flashes to indicate Level 4.

Defogger*

Press and release 

Activates the vehicle Defogger circuit (if connected) while Remote Start is activated and the parking lights flash 3 times. For convenience, the Defogger circuit will also automatically activate 10 seconds after remote starting if the temperature is below 55°F.

Note	Remote Start must be active to use this feature.
-------------	--

AUX 4

Press and release **AUX**

Activates (or if On, deactivates) the Aux 4 output.

* This feature must be installed and turned on by an authorized Directed dealer.
--

Remote Control Configuration

The remote controls have operations that can be configured to a user's personal preferences. The following instruction will direct you through the available programming options for both remote controls.

Remote Programming

To Enter Programming: Press and hold the **f** button for 8 seconds, the transmit LED turns on to indicate the Main Menu is accessed.

To Exit Programming: Press and release the **f** button once then press and hold the **f** button again until the transmit LED shuts off.


Remote Pairing


The following instruction will step you through the remote pairing operation.

Prepare the vehicle system for pairing:

1. **Turn** the key to the ON position.
2. Within 5 seconds **press** and release 1 time the Control button on the Control Center.
3. Within 5 seconds, **press** and **hold** the Control button. The status LED will flash one time and the horn (if connected) honks once to confirm the system is ready for remote pairing.
4. **Release** the Control button and proceed to next step.

Prepare the remote control for pairing:

5. Enter programming by pressing and holding the **f** button for 8 seconds to access the Main Menu.
6. **Press** and **hold** the  button for 1 second, 3 transmit LED flashes indicate the remote control is ready to pair.

7. **Press** the  button.
8. Wait several seconds as the remote generates a security encryption and sends it to the Control Center. The horn honks to indicate Pairing is complete.
If pairing is not successful press and release the **f** button once and then repeat steps 6 and 7.

Pairing will exit if:


- Step 7 is not completed within 60 seconds
- The doors are closed
- The ignition is turned off.

Remote Programming


Enter programming, **press** and **hold** the **f** button for 8 seconds, the transmit LED turns on to indicate the Main Menu is accessed.



Exit programming or go back to a previous menu, **press** and release the **f** button. When programming is exited the transmit LED turns off.

Remote Features

Enter programming to access the main menu as previously explained, then from the main menu, **press** and hold the  button to access the remote operation features, 2 transmit LED flashes indicate the remote features menu is accessed. **Press** the buttons indicated in the tables below to set the feature option.

The remote control will flash the Transmit LED to indicate the setting.

Feature	Button Press	Single Flash	Double Flash
Keypad Lock		Auto	Off *

Feature	Button Press	Single Flash	Double Flash
Button Beeps		On*	Off
Car 2		Car 2 On	Car 2 Off *


* Indicates default setting.

Keypad Lock

Options: Off, Auto

When Off, the buttons do not lock and always perform a command when pressed. When set to Auto, the remote buttons lock after a 20 second lapse between button presses to prevent unintentional operations.

To unlock the buttons, press the **f** button followed by the  button.

Note	If a button is pressed when locked, a fault tone plays as an alert. To unlock the buttons, press the f button followed by the  button, tones are emitted to confirm unlocking.
-------------	--

Car 2

Options: Off, On

The remote controls can control two systems independently. When set to Off, the Car Select feature is not available. When set to On the Car Select feature is enabled. See *Car Select* (under *Remote and System Operations*) for detail on using a remote with 2 systems.

Emergency Override

The override feature allows you to select a specific number of presses needed to disable the system.

If the override button has been programmed to a new number of presses by your authorized dealer, that number should be indicated as follows. Number of presses_____

1. Turn the ignition On.
2. Press the control button on the Control Center the correct number of times (the default is 1 press).
3. After a few seconds the horn output ceases and the system is disabled.

Note

As a precaution, if programmed for Passive Locking or Auto re-locking the system should be placed into Valet Mode until a remote is available.

Remote Start Features

Key Takeover

When you are ready to drive

The system keeps the engine running until the vehicle is ready to be driven. To perform Key Takeover:

1. **Unlock** the system and **enter** the vehicle, do not step on the foot brake.
2. **Insert** the key, **turn** it to the run position, and then **step** on the foot brake, the remote start then turns off.
3. The parking lights turn off to indicate remote start is off.
4. The vehicle is ready to drive.

Remote Start Safe-lock

Remote start safe-lock makes sure the doors are locked while the engine is running and after, even if they are unlocked when remote start is activated. Door locks may require additional parts and labor.

Disabling Remote Start

Remote start can be disabled by moving the Toggle Switch to the Off position. If remote start is attempted while Off, the engine will not start. (See *"Remote Start Faults"* under *Remote Start Features*) move the switch back to the On position to resume normal operation.

Advanced Start

The Advanced start features; Timer Start and Smart Start will automatically start the engine to maintain battery charge or combat extreme cold when parked for an extended period of time.

Precautions for the Advanced Start features:

- Park the vehicle in a well ventilated area away from windows and doors that lead into inhabited spaces.
- Lock the vehicle, the engine will not start unless the doors are locked.
- Only one Advanced start feature can be enabled at any given time.
- For manual transmission vehicles MTS mode must be enabled before Timer Start or Smart Start can be activated.
- Timer Start or Smart Start mode automatically exits when the vehicle is unlocked.

Timer Start operation

Activation begins a countdown timer as set by the installer (default 3 hours). When the timer expires the engine starts. When the Remote start runtime expires the engine shuts off, and the countdown timer restarts. This will repeat as many times as set by the installer (default 6 starts). Timer Start is exited after the final start.

Smart Start operation


Smart Start uses the settings for Timer Start in addition to temperature and battery level to automatically start the engine. Activation begins the countdown timer. When the timer expires the vehicle interior temperature and battery level is checked and, if the Temperature is above 100°F, below 0°F, or the battery level is below 10.5V, the engine will start. When the Remote start runtime expires the engine shuts off, and the countdown timer restarts. Smart Start is exited after the final start.

Note	The temperature and battery thresholds can be changed by an authorized Directed dealer if a higher or lower threshold is desired.
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Pit Stop Mode

To exit vehicle with engine running

The system keeps the engine running during short trips into the house or convenience store. To perform Pit Stop:

1. With the engine running, **set** the parking brake and **release** the foot brake.
2. **Press** the  button, the parking lights will turn on to indicate remote start is on.
3. **Turn** the key to off, and **remove** it from the ignition, the engine continues running for the programmed runtime.
4. **Exit** the vehicle and lock the system.

Note	For Pit Stop on manual transmission vehicles follow the directions in the <i>"Manual Transmission Start (MTS mode)"</i> section with the door open.
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Manual Transmission Start (MTS mode)

When installed into a manual transmission vehicle, the system requires that the MTS mode is properly set when parking. If MTS mode is not properly set or is defeated after being properly set the system will not start the engine.

1. With the engine running, press the foot brake then **set** the parking brake and leave the engine running.

For Pit Stop or Turbo Timer mode (to leave the engine running after locking), **open** the driver door.

2. **Release** the foot brake. As long as the engine is running there is no time limit to perform this step.
3. Within 20 seconds of foot brake release, **press** any command button on the remote, after 20 seconds return to Step 2 (For Turbo Timer Mode, press the optional dash mounted activation button or send the Timer Mode command.
4. The parking lights flash 5 times to confirm MTS mode is enabled and the remote start activates the ignition outputs.
5. **Turn** Off and **remove** the key from the ignition switch, the engine remains running.
6. **Exit** the vehicle, **close** all the doors and lock the system.
7. The engine turns off. If the door is opened in Step 1 then the engine continues to run.

Turbo Timer Mode

The system keeps the engine running for the Turbo Timer runtime and can be activated by remote control or optional dash mounted activation button.

1. With the engine running, **set** the parking brake.
2. **Press** the optional dash mounted activation button or perform the Timer Mode command.
3. The parking lights turn on and the remote start activates the ignition outputs.
4. **Turn** Off and **remove** the key from the ignition switch, the engine remains running.
5. **Exit** the vehicle, **close** all the doors and **lock** the system.
6. The engine runs for the Turbo Mode runtime.

Note Turbo Timer must be turned on by an authorized Directed dealer.

Note For Turbo Timer mode on manual transmission vehicles follow the directions in the *Manual Transmission Start* (MTS mode) section with the door open and in step 3 send the Timer Mode command from the remote control.

Remote Start Faults

For user safety, the system must be properly configured or remote start will not activate. A Remote Start Fault may be caused by any of several configuration issues. If the remote start fails to activate, refer to the table below for the command type and parking light flashes that will identify the configuration issue and solution.

Flashes *	Possible Fault	Solution
5	Brake on	Release foot brake
6	Hood open	Close hood
7	After performing Remote Start command - MTS not enabled	Enable MTS mode
	After performing Timer Start or Smart Start command	Check all Solutions
8	Toggle Switch off	Turn switch on

* Refers to the number of parking light flashes.

Remote and System Operations

Passive Locking*

Park and exit the vehicle, after the doors are closed the Passive locking countdown begins. The led flashes quickly and upon reaching 20 seconds the siren then chirps once. At 30 seconds the system activates itself.

Anytime before the system locks you can re-enter the vehicle or open the trunk to load or unload items and, after closing passive locking resumes.

To stay secure in case of accidental unlocking the system, if a door is not opened within 30 seconds the system reactivates itself and locks the doors.

Auto Re-locking*

Auto re- ensures the vehicle stays locked if it is not entered after unlocking by remote control. After unlocking by remote, the system automatically re-locks the doors (if programmed on) in 30 seconds. Open any point of entry to stop the re-lock until the next unlock by remote.

Onetime Bypass*

Turn the ignition On for one to three seconds and then Off. The horn honks once to confirm one-time bypass is enabled.

One-time bypass can be used to temporarily bypass the Passive locking operation for one cycle. It also bypasses the comfort closure and auxiliary channel outputs if programmed to activate when locking. After the next unlock, all operations return to normal.

* The optional horn honk feature must be installed.

Valet Mode

Valet mode can be entered and exited by performing the Remote Valet command or manually using the vehicle key and the control button.

Use the following steps to manually enter and exit Valet Mode:

1. **Turn** the ignition switch On and then Off
2. Immediately **press** and **release** the control button once
3. The control center LED turns On when entering and Off when exiting.

Power Save

To reduce power consumption the control center status LED modifies its output if the vehicle is parked for an extended period. If Locked the flashing is reduced after 24 hours. When Valet mode is On the LED turns off after 1 hour and resets each time the ignition is turned off.

Rapid Resume

If power is ever disconnected by a mechanic or thief, the system will resume the state it was in at the time of disconnection, when power is reconnected.

Car Select

Car 2 remote control option must first be turned On (See *Remote Control Configuration* section to turn on). **Press** and **hold** the **f** button for 3 seconds. The LED flashes once or twice to indicate the selected Car is 1 or 2, **release** the button for Car Select or continue to **hold** for programming.

Release the **f** button, then **press** and **release** while the LED flashes continue to perform Car Select. Once the car is selected a command can be performed by pressing one of the command buttons.

System Expansion Options

Controlling two vehicles (Car Select)

The remote controls can control systems in two different vehicles saving the need for multiple remote controls. This feature also allows for customized system configurations on each vehicle that has more than one driver. See *Owner Recognition* for details.

Owner recognition *

The system can be configured to recognize the remote used when unlocking and change selected features to match the remote users preferences. Memory seat adjustment, horn honks, passive locking, remote button auto unlocking, horn output duration can all be custom set for each remote user at the time of installation.

Comfort closure *

Comfort Closure emulates turning the key in the door cylinder or holding the lock button of an OEM keyless entry. It will automatically close the windows and sunroof on vehicles with this type of OEM convenience feature.

Driver door priority unlocking *

The door unlocking operation can be configured to emulate an OEM style of driver priority unlocking for added protection during unocking.

Auxiliary Channels

The auxiliary channel outputs of this system can activate many of the convenience features found in today's vehicles. The system installer can clarify if any of the following listed features are compatible with your vehicle.

- Trunk Release

- Windows open/close
- Left Sliding door open/close
- Right Sliding door open/close
- Rear Hatch open/close
- Sunroof open/close
- Audio System
- Headlights

* These features must be turned on by an authorized Directed dealer.

Battery Information

The remote controls are powered by 1 coin cell battery (CR-2032) that can be purchased at most retailers. When the battery begins to weaken, the operating range will be reduced. The information and precautions in this section can help maximize your battery's life and usage in providing you with many years of trouble free operation.

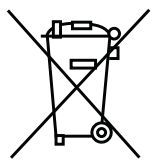
Low Battery Alerts

When unlocking the system using a remote with a low battery the horn emits one additional honk as an alert. If confirmation honks are programmed off, the system will still emit one honk as an alert when unlocking. The optional horn honk feature must be installed.

Battery Replacement

1. If present, remove the small screw on the back of the remote.
2. Use a small flat blade screwdriver and insert it into the slot located along the bottom of the remote, near the key ring. Carefully pry open the case.
3. Gently slide out the used battery to remove it from the holding clip. Orient the new battery for the correct polarity and insert into holding clip.
4. Reposition case parts, and snap together by pressing firmly and evenly on the front and back. Reinstall screw (if applicable).

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.

Patent Information

This product is covered by one or more of the following United States patents:

Remote Start Patents:

5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936;
5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053;
7,483,783

Vehicle Security Patents:

5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591;
5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667;
5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Other patents pending.

Glossary of Terms

Document Terminology

Control Module	The “brain” of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system’s functions.
Remote Control	A hand-held, remote control which operates the various functions of your system.
Control Center	The control center contains the system’s radio-frequency antenna, the control button, and the Status LED. For maximum remote-control range, the control center is usually located at the top of the windshield, centered near the rear-view mirror.
Status LED	A light used to indicate the status of your system. It is located on your system’s Control Center.
Control Button	A small push button located on your system’s control center. It is used to override (disarm) the alarm when a remote is not available or to enter or exit Valet Mode.

Government Regulations

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Remote Controls

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

Control Center

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Warning! Safety First



Please read the safety warnings below before proceeding. Improper use of the product may be dangerous or illegal.

Installation

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer. If you have any questions, ask your retailer or contact Directed directly at 1-800-753-0600.

Remote Start Capable

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter. Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed menu wheel. It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED. These precautions are the sole responsibility of the user.

Manual Transmission Vehicles

Remote starters on manual transmission vehicles operate differently than those with automatic transmission because you must leave your car in neutral. You must read this Owner's Guide to familiarize yourself with the proper procedures regarding manual transmission remote starters. If you have any questions, ask your authorized Directed dealer or contact Directed at 1-800-753-0600.

Before remote starting a manual transmission vehicle, be sure to:

- Leave the vehicle in neutral and be sure no one is standing in front or behind the vehicle.
- Only remote start on a flat surface
- Have the parking brake fully engaged

WARNING! It is the responsibility of the owner to ensure the parking/emergency brake properly functions. Failure to do so can result in personal injury or property damage. We recommend the owner have the parking / emergency brake system inspected and adjusted by a qualified automotive shop biannually.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in the product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized Directed dealer to fix the problem.

After the remote start module has been installed, contact your authorized dealer to have him or her test the remote start module by performing the Safety Check outlined in the product installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or the installer must properly reinstall the remote start system so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN

GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED Directed DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

This product is designed for fuel injected vehicles only. Use of this product in a standard transmission vehicle must be in strict accordance with this guide.

This product should not be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

Interference

All radio devices are subject to interference which could affect proper performance.

Upgrades

Any upgrades to this product must be performed by an authorized Directed dealer. Do not attempt to perform any unauthorized modifications to this product.

Water/Heat Resistance

This product is not designed to be water and/or heat-resistant. Please take care to keep this product dry and away from heat sources. Any damage from water or heat will void the warranty.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR

ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLIGENCE, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

DIRECTED®

The company behind Viper® Auto Security Systems is Directed.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology.

Quality Directed products are sold and serviced throughout North America and around the world.

Call **(800) 876-0800** for more information about our products and services.

Quick Reference Install Guide

Remote Start w/ Keyless Entry for: Responder LCD, LED & 1-way systems

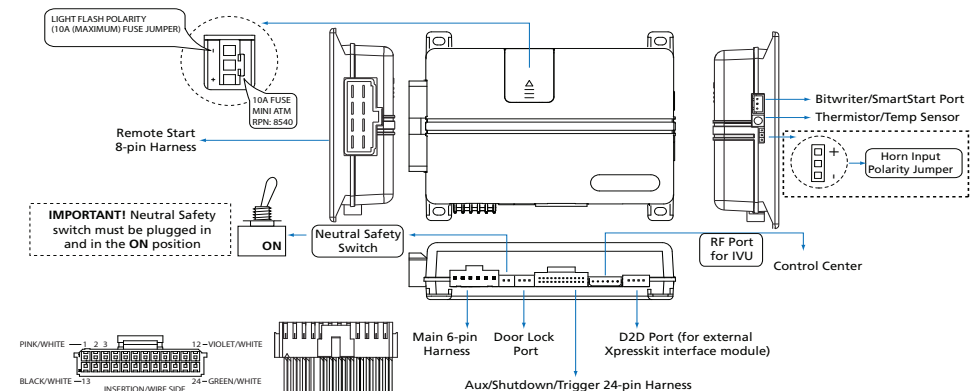
Wiring Connections

Main Harness , 6-pin connector

H/1	RED	(+)12VDC CONSTANT INPUT
H/2	BLACK	(-) CHASSIS GROUND
H/3	BROWN	(-) 200mA HORN HONK OUTPUT
H/4	WHITE/BROWN	LIGHT FLASH ISOLATION WIRE - PIN 87a light flash relay
H/5	WHITE	PIN 30 of LIGHT FLASH RELAY
H/6	ORANGE	500 mA GROUND WHEN ARMED OUTPUT

Door Lock, 3-pin connector

1	BLUE	500mA (-) UNLOCK OUTPUT
2	EMPTY	NOT USED
3	GREEN	500mA (-) LOCK OUTPUT



Auxiliary/Shutdown Harness 24-pin connector

1	PNK/WHITE	(-) 200mA Ignition 2/Flex OUTPUT
2	BLUE/WHITE	(-) 200mA 2ND STATUS /REAR DEFOGGER OUTPUT
3	RED/WHITE	(-) 200mA TRUNK RELEASE OUTPUT
4	BLACK/YELLOW	(-) 200mA DOME LIGHT OUTPUT
5	DARK BLUE	(-) 200mA STATUS OUTPUT
6	WHITE/BLACK	(-) 200mA AUX 3 OUTPUT
7	WHITE/VIOLET	(-) 200mA AUX 1 OUTPUT
8	ORANGE/BLACK	(-) 200mA AUX 4 OUTPUT
9	GRAY	(-) HOOD PIN INPUT (NC OR NO)
10	BLUE*	FACTORY HORN INPUT (Use Jumper to set polarity)
11	WHITE/BLUE	ACTIVATION INPUT
12	VIOLET/WHITE**	TACHOMETER INPUT
13	BLACK/WHITE***	(-) NEUTRAL SAFETY /PARKING BRAKE INPUT
14	GREEN/BLACK	(-) 200mA FACTORY ALARM DISARM OUTPUT
15	GREEN**	(-) DOOR INPUT

Guide Translations

For a Spanish or French version of the Installation Guide, please download it from www.directechs.com under Resources.

Estimado Cliente:

Si buscas los guías de instalación, por favor de bajar lo del Resources en el sitio www.directechs.com

Cher consommateur:

Si vous désirez une version française ou espagnole du guide d'installation, veuillez s.v.p. le télécharger à l'adresse suivante: www.directechs.com en appuyant sur l'icône <<Resources>>.

Remote Start, 8-pin connector

1	RED/BLACK	(+) 12VDC CONSTANT INPUT for ACC and starter relays
2	PINK/BLACK	(+) FLEX RELAY INPUT 87A key side (if required) of FLEX RELAY
3	PINK/WHITE	(+) IGNITION 2 / FLEX RELAY OUTPUT
4	RED	(+) 12VDC CONSTANT INPUT for ignition 1 relay
5	VIOLET	(+) STARTER OUTPUT
6	ORANGE	(-) ACCESSORY OUTPUT
7	RED/WHITE	(+) 12VDC CONSTANT INPUT for ignition 2 and flex relays
8	PINK	(+) IGNITION 1 INPUT/OUTPUT

Installation Points

Learning the Tach (not needed with Virtual Tach)

To learn the tach signal:

1. Start the vehicle with the key.
2. Within 5 seconds, **press** and **hold** the Control button.
3. After 3 seconds the status LED on your Control Center lights constant when the tach signal is learned.
4. **Release** the Control button.

Important: This unit can learn the tachometer with the analog input or through D2D using an interface module. The unit confirms which source is used by flashing the parking lights.

When programming tach learning with:

- Analog, the parking lights flash one time.
- D2D interface module, the parking lights flash twice.

If the tachometer input on the system is connected to the vehicle, the D2D tachometer input is ignored.

Learning Virtual Tach (not needed with hardwire tach inputs)

To program Virtual Tach:

1. After the install is complete, **remote start** the engine. The programming operation may require 3 cranks of the starter before the engine starts and runs. Do not turn off the remote start if this happens, it is a normal programming operation.
2. Once the engine begins running, let it run for at least 30 seconds.
3. Using the Remote, send the Remote start command to turn remote start off. Virtual Tach is programmed.

Note: Virtual Tach cannot be used in MTS Manual Transmission Mode. It is also not recommended for diesel vehicles.

Virtual Tach handles disengaging the starter motor during remote starting – it does not address over-rev. If the customer wants to have the over-rev protection capability, the tach wire must be connected.

Important: After successfully learning Virtual Tach, a small minority of vehicle starters may over crank or under crank during remote start. The Bitwriter can be used to fine tune the starter output time in 50 ms increments to compensate for such an occurrence.

Remote Start Shutdown/Startup Diagnostics

To perform shutdown diagnostics:

1. With the ignition Off, **press** and **hold** the Control button.
2. **Turn** the ignition On and then back Off while **holding** the Control button.
3. **Release** the Control button.
4. **Press** and **release** the Control button. The status LED flashes to report the last shutdown for one minute or until the ignition is turned on, as shown in the following table:

Status LED Flashes	Shutdown Mode
1 flash	Runtime expired
2 flashes	Over-rev shutdown
3 flashes	Low or no RPM
4 flashes	Transmitter shutdown (or optional push button)
5 flashes	(+) Brake shutdown
6 flashes	(-) Hood shutdown
7 flashes	Timer mode/Turbo mode/Manual mode error *
8 flashes	Neutral safety shutdown
9 flashes	Low battery (voltage mode)
11 flashes	Wait-to-start input timed out

- * Timer mode error: Ignition is on or shutdown input is active when activating timer mode.
- Turbo mode error: Turbo mode is programmed off, engine is not on or shutdown input is active.
- Manual mode error: MTS mode not enabled.

Startup Diagnostics: If the vehicle fails to activate the remote start, the remote start module will flash the parking lights on the vehicle to notify you of what caused the no-start situation.

Parking Light Flashes

- 5 flashes Brake wire is active
- 6 flashes Hood pin wire is active
- 7 flashes Manual transmission mode is enabled and not initialized.
- 8 flashes Neutral safety wire has no ground or the neutral safety switch is Off.

Basic Remote Functions

5-Button Remote Control

Level Button	DIRECT ACCESS	f X 1	f X 2	f X 3	f X 4
LOCK	LOCK	SILENT LOCK			
UNLOCK	UNLOCK	SILENT UNLOCK	REMOTE VALET	CAR FINDER	
REMOTE START	REMOTE START	RUNTIME RESET	TIMER MODE	SMART START	REAR DEFOGGER
AUX	TRUNK RELEASE	AUX 1	AUX 2	AUX 3	AUX 4
f	FUNCTION SHIFT	CABIN TEMPERATURE REQUEST (2-WAY ONLY)	RUNTIME CHECK (2-WAY ONLY)		

1-Button Remote Control

System State	Press/Release	Press/Hold for 3 sec.
ENGINE OFF	START ENGINE	CAR FINDER
ENGINE ON	UNLOCK DOORS	STOP ENGINE

Important: If the IVU (control center) has been replaced, all remote controls must be re-paired with the system. See Remote Pairing for details.

Bitwriter - only Options

If programming with the Bitwriter®, the learn routine can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter® - this cannot be done manually with the Control button.

The Bitwriter® gives you access to a wider range of system options. These features and the adjustments that may be programmed are described under the Bitwriter section in the full online guide.

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.



The Bitwriter® (p/n 998U) requires chip version 2.7 or newer to program this unit.

Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the Control button.

1. **Turn** the ignition on, then off.
2. **Select** a Menu. **Press and hold** the Control button. The number of horn honks and LED flashes indicates the menu number. 1 horn honk and LED flash indicates menu 1, 2 horn honks and LED flashes - menu 2 and 3 horn honks and LED flashes for menu 3.
3. When the desired menu horn honks are heard with LED flashes, **release** the Control button.
4. **Select** a Feature. **Press and release** the Control button the number of times corresponding to the feature you wish to change. Then **press and hold** one more time to select the features.
5. **Program** the Feature. While holding the Control button, you can program the feature using the remote control.

For features with only two options;  = option 1 while  = option 2.

For features with more than two options;  selects the options in ascending order, while  selects them in descending order.

Note: Pressing  button resets the feature to the factory default.

Once a feature is programmed:

- Other features can be programmed within the same menu
- Another menu can be selected
- The learn routine can be exited if programming is complete

To access another feature in the same menu:

1. **Press and release** the Control button the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then **press** the Control button once more and **hold** it.

To select another menu:

1. **Press and hold** the Control button.
2. After 3 seconds, the unit advances to the next menu and the horn honks and the LED flashes, indicating which menu has been accessed.

The learn routine exits if any of the following occurs:

- The ignition is turned On
- There is no activity for 30 seconds
- The Control button is pressed too many times

Feature Menus

Default settings are in **bold** type.

Menu 1 - Vehicle Integration

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt. 4	Opt. 5+
1	System Locking Mode	Active Locking	Passive Locking	Auto Re-locking		
2	Panic Mode *	On	Ign Off only	Off		
3	Horn Function	Confirmation Chirp (20 ms) & Panic	Confirmation Chirp (30 ms) & Panic	Confirmation Chirp (40 ms) & Panic	Confirmation Chirp (50 ms) & Panic	Confirmation Chirp Off - Panic Only (Pulsed)
4	Ign-controlled locks	No Ign-locking	Lock & Unlock	Lock Only	Unlock Only	

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt. 4	Opt. 5+
5	Door Lock Pulses	Single	Double Unlock Only	Double Lock Only	Double Lock & Unlock	
6	Door Lock output duration	0.8 sec.	3.5 sec.	0.4 sec.		
7	2nd Unlock	2nd unlock on/ Ign-control after first unlock	2nd unlock on/ Ign-control with first unlock			
8	Comfort Closure *	No Comfort Closure	Comfort Closure 1	Comfort Closure 2		
9	Hood Trigger Type	Normally Open	Normally closed			
10	Door Switch Type	Normally open	Normally closed			
11	Ignition Off msg (remote button unlock) **	On	Off			

* Not available on the 1-button remote control.

** Not available on the 1-way remote control.

Menu 2 - Convenience

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt. 4	Opt. 5+
1	Onetime Bypass	No Bypass	Bypass			
2	Valet Switch Pulse Count	1	2	3	4	5
3	Door Ajar Error msg *	On	Off			
4	Ign-controlled Dome light	On	Off			
5	OEM Alarm Disarm w/ Aux/trunk *	On	Off			
6	OEM Alarm Disarm Output	With Unlock	Before Unlock	Remote Start Only		
7	OEM Alarm Disarm Pulses	1	2			
8	Aux 1 Output type **	Validity	Latch	Latch/reset/ign	Timed	Off (S)/2nd Unlock (d)
9	Aux 1 Linking	No Linking	Link to Lock	Link to Unlock	Link to Lock/Unlock	Link to Remote Start only
10	Aux 2 Output type **	Validity	Latch	Latch/reset/ign	Timed	Off (S)/2nd unlock (d)
11	Aux 2 Linking	No Linking	Link to Lock	Link to Unlock	Link to Lock/Unlock	Link to Remote Start only
12	Aux 3 Output type **	Validity	Latch	Latch/reset/ign	Timed	Off (S)/2nd unlock (d)
13	Aux 3 Linking	No Linking	Link to Lock	Link to Unlock	Link to Lock/Unlock	Smart Key Control (Link to Remote Start Off)
14	Aux 4 Output Type **	Validity	Latch	Latch/reset/ign	Timed	Off (S)/2nd Unlock (d)
15	Aux 4 Linking	No linking	Link to Lock	Link to Unlock	Link to Lock/Unlock	Link to Remote Start Only
16	Aux/Trunk Output type	Validity	Off	2nd unlock		

* Not available with the 1 button remote

** Aux channels with the 1button remote can only be accessed with channel linking to unlock or remote start.

Menu 3 - Remote start

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt. 4	Opt. 5+
1	Transmission Mode	Manual	Automatic			
2	Engine Checking Mode	Virtual Tach	Voltage	Off	Tachometer	
3	Cranking Time	0.6 sec.	0.8 sec.	1.0 sec.	1.2 sec.	1.4 (S) / 1.6 (d) / 1.8 (7/) / 2.0 (8/) / 4.0 (9)
4	Remote Start Runtime	12 min.	24 min.	60 min.		
5	Activation Pulse Count	1	2			
6	Turbo Mode *	No Turbo Mode	On-1 min.	On-3 min.	On-5 min.	On-10 min.
7	Timer Mode Runtime **	12 min.	3 min.	6 min.	9 min.	
8	Flex Relay Function	Ignition 2	Accessory 2	Starter 2		
9	Diesel Start Delay	Wait-to Start input	Timed 15 sec.	Timed 30 sec.	Timed 45 sec.	
10	Accessory during Diesel Start Delay	On	Off			
11	Status 2 Output	Status	Latch Rear Defogger	Pulse Rear Defogger		
12	Parking Light Output	Constant	Pulsed	Off		
13	Anti-grind Output	On	Off			
14	Tach Mode Starter Release	Normal	Increase	Decrease		
15	Vehicle temp *** auto report	Off	On			
16	Remote Start Safelock	Off	On			


* With the 1-button remote; turbo timer can only be activated by adding a push button to the white/blue (-) activation input wire on the 24 pin harness.

** Not available with the 1-button remote control.

*** Not available with the 1-button or 1-way remote control.

Reset and Delete

To reset the features/virtual tach or delete remote controls follow this procedure:

1. Turn the key to the ON position.
2. Within 5 seconds press and release the control button: 2 times to delete remotes, 3 times to reset the features to default or 4 times to reset virtual tach.
3. Once you have selected the function step, press the control button once more and hold it. The LED will flash and the horn honks to confirm the functional step chosen. Release the control button.
4. Press the  button of a programmed remote control. The horn honks confirming the feature has been reset/deleted.

Note: Deleting a remote control does not reset the features or virtual tach, resetting the features does not delete remote controls or reset virtual tach. The Zap feature on the Bitwriter will not reset the virtual tach setting.

Reset/delete will exit if:

- The ignition is turned off.
- 60 seconds lapses with no actions.

Remote Pairing

Prepare the system to be paired with a new remote:


1. Turn the key to the on position.
2. Within 5 seconds press and release the control button on the control center one time.
3. Within 5 seconds, press and hold the control button on the control center. The status led will begin flashing in sequence of one flash and the siren will chirp to confirm the vehicle is ready for remote pairing.
4. Follow the below instructions to setup the remote type to be paired to the system.

System Pairing will exit if:


- The ignition is turned off.
- 60 seconds lapses with no actions.

Note: Make sure the remote to be paired with the system is set for the desired Car 1 or Car 2 operation.



LED Remote:

1. Press and hold the **f** button for 8 seconds, the remote will beep once, **[Main Menu]** is displayed. Release the **f** button.
2. Press the **or** buttons until **[Pair]** is displayed.
3. Press and hold the **f** button until the remote beeps 3 times then release the **f** button. The remote is now ready to pair with the system.
4. Press the  button.
5. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren will chirp and the remote will emit several tones. The screen displays if the Pairing is successful or failed with corresponding text. If pairing fails repeat step 4.

To exit pairing mode on the remote:

- Press and release the  button.
- Wait 30 seconds without pressing a command button on the remote

Responder LED or Companion Remote:

1. Press and hold the **f** button for 8 seconds. The transmit LED will come on solid. Release the **f** button.
2. Press and hold the  until the transmit LED flashes 3 times then comes on solid.
3. Press the  button.
4. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren will chirp and the 2-way remote will emit several tones (the companion remote does not generate tones).

If pairing is not successful press and release the **f** button once and then repeat steps 2 and 3.

To exit pairing mode on the remote:

- Press and release the **f** button once, then press and hold until the transmit LED shuts off.
- Wait 30 seconds without pressing a command button on the remote.

1 Button 1-way and 2-way Remote:

1. Press and hold the remote button until the transmit LED comes on solid.
Note: The transmit LED pattern will change while holding.
2. If pairing is successful the horn will sound.

If pairing is not successful repeat step 1.

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WARNING

VEHICLE EQUIPPED WITH A DEI® REMOTE START SYSTEM

If vehicle battery is disconnected, the system may attempt to start when the battery is reconnected or transmitter is used. Press brake to disengage. Check with vehicle owner to determine if hood pin switch or override switch was installed to disengage the system for service.

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First Name

Initial

Last Name

Street

Apt.

City

State/Province

Zip/Postal code

E-mail address

2. Your date of birth:

Month

Year

3. Marital status:

01. ☐ Married02. ☐ Single

4. Date of purchase:

Month

Day

Year

5. Model number:

6. Name of store where purchased:

7. Price paid:

(excluding tax)

8. Which Directed brand did you purchase?

01. ☐ Autostart04. ☐ Python02. ☐ Avital05. ☐ Vyper03. ☐ Clifford06. ☐ Other

9. What type of product did you purchase?

01. ☐ Security system02. ☐ Security system with remote start03. ☐ Remote start system04. ☐ Keyless entry system

10. In what vehicle will this product be used?

01. ☐ Car04. ☐ Van07. ☐ Boat02. ☐ Truck05. ☐ Minivan08. ☐ Motorhome03. ☐ SUV06. ☐ Motorcycle09. ☐ Other

Make of vehicle:

Model name:

VIN:

Year:

01. ☐ Bought new 03. ☐ Leased new02. ☐ Bought used 04. ☐ Leased used

11. How did you first become aware of this product? (check one)

01. ☐ Local newspaper07. ☐ Radio commercial02. ☐ Yellow pages08. ☐ Salesperson's03. ☐ Magazine Ad

recommendation

04. ☐ TV commercial09. ☐ Motorsports05. ☐ Magazine article/
review

sponsorship

06. ☐ Friend/Relative's
recommendation10. ☐ Internet11. ☐ Other

12. What factors most influenced the purchase? (check up to three)

01. ☐ Directed's reputation09. ☐ Rebate/Promotion02. ☐ Experience with
Directed products10. ☐ Style/Design/Color03. ☐ Experience with dealer11. ☐ Dealer proximity04. ☐ Value/Price12. ☐ Friend's05. ☐ Special features

recommendation

06. ☐ Warranty13. ☐ Salesperson07. ☐ Quality/Durability14. ☐ Compatibility w/vehicle08. ☐ Display in-store demo15. ☐ Other

13. What benefits most influenced your decision to purchase this product? (check up to three)

01. ☐ Improved security11. ☐ Warranty02. ☐ Improved convenience12. ☐ Price/Value03. ☐ Improved performance13. ☐ Rebate/Promotion04. ☐ Compatibility w/vehicle14. ☐ Immediate05. ☐ Ease of installation

availability

06. ☐ Style/Design/Color15. ☐ Friend/Family's07. ☐ Special features

recommendation

08. ☐ Quality/Durability16. ☐ Salesperson's09. ☐ Increase vehicle value

recommendation

10. ☐ Functionality17. ☐ Dealer proximity

14. What other brands did you seriously consider before making this purchase?

01. ☐ No other brands06. ☐ Compustar

considered

07. ☐ Prestige02. ☐ Other Directed brands08. ☐ Pursuit03. ☐ Code Alarm09. ☐ Crime Stopper04. ☐ Audiovox10. ☐ Bulldog05. ☐ Auto Page